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L10	18	("5,394,521" "5,428,729" "5,471,399" "5,481,399" "5,491,796" "5,500,929" "5,838,968" "5,949,417" "6,002,398" "6,014,138" "6,076,106" "6,078,920" "6,173,289" "6,233,623" "6,252,591" "6,268,853" "6,233,726" "6,272,493").pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/20 11:12
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L17	3564	(manag$5 with resource$1).ab.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/20 11:19
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L23	34	19 and (707/3).ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/20 11:51
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L25	7	24 and 14	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/20 12:05
L26	1856	(network$3 with manag$5 with resource$1).clm.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/20 12:05
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1 Exploiting path diversity in mobile systems: A mechanism for host mobility
       management supporting application awareness   ▭
       Arjan Peddemors, Hans Zandbelt, Mortaza Bargh
       June 2004 **Proceedings of the 2nd international conference on Mobile systems,
                 applications, and services MobiSys '04**
       Publisher: ACM Press
       Full text available: ⃞ pdf(499.48 KB)   Additional Information: full citation, abstract, references, index terms

       Many approaches exist today that address the issues that arise when a mobile node
       changes its point(s) of attachment to the Internet. Mobile IP takes care of host mobility at
       the IP layer; others at the transport layer (Mobile SCTP) or at the application layer (SIP
       with re-invite). In practice, most of these approaches rely on functionality residing on the
       mobile host that scans, detects and activates the networks available through one or more
       network interfaces.The mechanism proposed in this pa ...

       Keywords: application awareness, host mobility, mobility management

2 A QoS management framework for distributed multimedia systems   ▭
       Daniel Won-Kyu Hong, Choong Seon Hong
       March 2003 **International Journal of Network Management**, Volume 13 Issue 2
       Publisher: John Wiley & Sons, Inc.
       Full text available: ⃞ pdf(588.84 KB)   Additional Information: full citation, abstract, references, index terms

       This paper proposes a high-performance connection management architecture to design a
       common QoS framework applied to an ATM network based on the Open Distributed
       Processing (ODP) concept. We design the QoS framework in accordance from the RM-ODP
       information and computational viewpoints.

3 Customer-centric service quality management for SK telecom's mobile packet service ▭
       Jisun Kim, Jong Hoon Park, Sung Kim, Dong Geol Lee, Yo Sub Kim, Sang Hyun Jin
       November 2006 **International Journal of Network Management**, Volume 16 Issue 6
       Publisher: John Wiley & Sons, Inc.
       Full text available: ⃞ pdf(555.06 KB)   Additional Information: full citation, abstract, references, index terms

       The research objective of our work is to improve the current quality management system
       by understanding the service quality that customers perceive. Also, the study aims to
       enhance work efficiency through the end-to-end quality of service (QoS) analysis from the

user's terminal to the service server, eliminating the overlaps of QoS degradation analyses involving the wireless network, core network, and platform network. Against this backdrop, this paper intends to identify the elements of quality ...

4 Role-based access control in telecommunication service management—dynamic role creation and management in TINA service environment
Takeo Hamada
October 1998 **Proceedings of the third ACM workshop on Role-based access control RBAC '98**
Publisher: ACM Press
Full text available: pdf(975.87 KB)   Additional Information: full citation, references, index terms

Keywords: TINA, role algebra, role class hierarchy, role mapping, role-based access control, security space, strongly-roled system, telecommunication service management

5 Requirements and the concept of cooperative system management
Bharat Bhushan, Ahmed Patel
May 1998 **International Journal of Network Management**, Volume 8 Issue 3
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(167.03 KB)   Additional Information: full citation, abstract, references, citings, index terms

Cooperation among various types of management functions is necessary to allow management functions to interwork in providing and using information and services for systems management. To understand these tasks from the point of view of cooperative working, this article discusses the requirements and presents the concept of cooperative system management. © 1998 John Wiley & Sons, Ltd.

6 On the scalability of network management information for inter-domain light-path assessment
Guanglei Liu, Chuanyi Ji, Vincent W. S. Chan
February 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 1
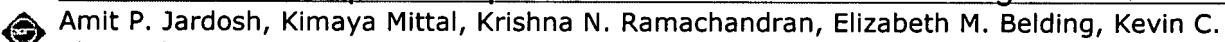**Publisher:** IEEE Press
Full text available: pdf(600.28 KB)   Additional Information: full citation, abstract, references, index terms

We investigate the necessary amount of network management information for light-path assessment to dynamically set up end-to-end light-paths across administrative domains in optical networks. Our focus is on the scalability of partial management information. We pose light-path assessment as a decision problem, and define the performance as the Bayes probability of an erroneous decision. We then characterize the scalability of management information as its growth rate with respect to the total re ...

Keywords: Bayes rule, blocking probability, decision theory, light-path assessment, management information, scalability

7 Wireless LAN: IQU: practical queue-based user association management for WLANs
Amit P. Jardosh, Kimaya Mittal, Krishna N. Ramachandran, Elizabeth M. Belding, Kevin C. Almeroth
September 2006 **Proceedings of the 12th annual international conference on Mobile computing and networking MobiCom '06**
Publisher: ACM Press
Full text available: pdf(1.04 MB)   Additional Information: full citation, abstract, references, index terms

Flash crowds and high concentrations of users in wireless LANs (WLANs) cause significant interference problems and unsustainable load at access points. This leads to poor connectivity for users, severe performance degradation, and possible WLAN collapse. To validate this claim, we present two case studies of large, heavily loaded operational WLANs. These studies provide significant insight into the degraded performance and collapse of a WLAN during heavy use. To address these problems, we propos ...

Keywords: IEEE 802.11, association management, congestion, wireless networks

8 Hierarchial architecture for real-time adaptive resource management

Inout Cardei, Rakesh Jha, Mihaela Cardei, Allalaghatta Pavan
April 2000 **IFIP/ACM International Conference on Distributed systems platforms Middleware '00**
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(261.48 KB)   Additional Information: full citation, abstract, references, citings

This paper presents the Real Time Adaptive Resource Management system (RTARM [1]), developed at the Honeywell Technology Center. RTARM supports provision of integrated services for real-time distributed applications and offers management services for end-to-end QoS negotiation, QoS adaptation, real-time monitoring and hierarchical QoS feedback adaptation. In this paper, we focus on the hierarchical architecture of RTARM, its flexibility, internal mechanisms and protocols that enable ...

9 Desktop versus web-based network management

Luca Haj Deri
December 1999 **International Journal of Network Management**, Volume 9 Issue 6
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(305.54 KB)   Additional Information: full citation, abstract, references, index terms

This paper introduces a novel management paradigm called desktop-based management that enables management of network resources from a desktop environment. It also covers the design and the implementation of SMB―SNMP, a simple desktop‐based management system that allows people to manage SNMP resources from a desktop environment. Copyright © 1999 John Wiley & Sons, Ltd.

10 Managing real-time services in multimedia networks using dynamic visualization and high-level controls

Mun Choon Chan, Giovanni Pacifici, Rolf Stadler
January 1995 **Proceedings of the third ACM international conference on Multimedia MULTIMEDIA '95**
Publisher: ACM Press
Full text available: htm(67.72 KB)   Additional Information: full citation, references, citings, index terms

11 Network management viewpoints: a new way of encompassing the network management complexity

Simon Znaty, Jean Sclavos
July 1994 **ACM SIGCOMM Computer Communication Review**, Volume 24 Issue 3
Publisher: ACM Press
Full text available: pdf(1.58 MB)   Additional Information: full citation, abstract, index terms

This paper defines viewpoints in order to deal with the network management complexity. A network management viewpoint leads to the representation of a network management system with emphasis on a specific concern. Five viewpoints are identified, namely

information, functional, communication, architectural and organizational. The network management standards provisions and lacks for every viewpoint are enhanced and some elements of solutions are presented. Then, these viewpoints are integrated an ...

12 Adaptive QoS management for IEEE 802.11 future wireless ISPs

Hakima Chaouchi, Anelise Munaretto

July 2004 **Wireless Networks**, Volume 10 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: pdf(299.46 KB)   Additional Information: full citation, abstract, references, index terms

Wireless Internet Service Providers (WISPs) are expected to be the new generation of access providers using the emerging IEEE 802.11 technology. Face to the high competition of providing network services, the WISP have to offer the best service to the users. For this purpose, the WISP networks' managers need to provide Quality of Service (QoS) with a minimum cost in their wireless networks. The current link layer IEEE 802.11b provides fair sharing of the radio resource with no service differenti ...

Keywords: IEEE 802.11, ISP business model, QoS framework, policy-based management, traffic differentiation, wireless network

13 SIGMOD challenges paper: database issues in telecommunications network management

Ilsoo Ahn

May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data SIGMOD '94**, Volume 23 Issue 2

Publisher: ACM Press

Full text available: pdf(822.72 KB)   Additional Information: full citation, abstract, references, citings, index terms

Various types of computer systems are used behind the scenes in many parts of the telecommunications network to ensure its efficient and trouble-free operation. These systems are large, complex, and expensive real-time computer systems that are mission critical, and contains a database engine as a critical component. These systems share some of common database issues with conventional applications, but they also exhibit rather unique characteristics that present challenging database issues. ...

14 Design and implementation of network management systems for integrated management of LANs and WANs

Do-Hyeon Kim, You-Ze Cho

May 2000 **International Journal of Network Management**, Volume 10 Issue 3

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(488.98 KB)   Additional Information: full citation, abstract, references, index terms

This paper proposes an integrated network management architecture that can simultaneously manage both LANs and WANs with either a standard or proprietary network management protocol. The features of the proposed architecture are analyzed in comparison with manager‐of‐managers architecture and common platform architecture. Copyright © 2000 John Wiley & Sons, Ltd.

15 Broadband internet network management software platform and systems in KT

Jae-Hyoung Yoo

November 2006 **International Journal of Network Management**, Volume 16 Issue 6

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(999.62 KB)   Additional Information: full citation, abstract, references, index terms

The high penetration rate of Internet access services in Korea has created an operational environment that is different from those of other countries, and thus the level of customer needs takes on different aspects. To meet the operational environment, customer needs and rapid time to market requirements, Korea Telecom (KT) developed a scalable and flexible Internet network management system software (NMS S/W) platform, on which many NMSs have been implemented. This paper introduces KT's Interne ...

16 A taxonomy of Data Grids for distributed data sharing, management, and processing

Srikumar Venugopal, Rajkumar Buyya, Kotagiri Ramamohanarao
June 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 1
Publisher: ACM Press
Full text available: pdf(1.70 MB)   Additional Information: full citation, abstract, references, index terms

Data Grids have been adopted as the next generation platform by many scientific communities that need to share, access, transport, process, and manage large data collections distributed worldwide. They combine high-end computing technologies with high-performance networking and wide-area storage management techniques. In this article, we discuss the key concepts behind Data Grids and compare them with other data sharing and distribution paradigms such as content delivery networks, peer-to-peer n ...

Keywords: Grid computing, data-intensive applications, replica management, virtual organizations

17 Using policies for effective network management

Michele J. Wright
March 1999 **International Journal of Network Management**, Volume 9 Issue 2
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(469.84 KB)   Additional Information: full citation, abstract, index terms

The goal of policy-based management is to reduce the complex administration of networks. Copyright © 1999 John Wiley & Sons, Ltd.

18 Computer networks: A generic model for an adaptive QoS management application

Wijak Srisujjalertwaja, Pattarasinee Bhattarakosol
January 2005 **Proceedings of the 4th international symposium on Information and communication technologies WISICT '05**
Publisher: Trinity College Dublin
Full text available: pdf(147.80 KB)   Additional Information: full citation, abstract, references

Increasing of wireless application and the Internet usages lead to a new emerging technology, Wireless Internet. An adaptive application that can adapt to a high variable environment is needed. According to the Quality of Service (QoS) concept, QoS management is needed to ensure that the Service License Agreement (SLA) between client and server will be executed. This paper proposes a generic model for an adaptive QoS management application. A general QoS management model is presented as a framew ...

19 A brief overview of ATM: protocol layers, LAN emulation, and traffic management

Kai-Yeung Siu, Raj Jain
April 1995 **ACM SIGCOMM Computer Communication Review**, Volume 25 Issue 2
Publisher: ACM Press
Full text available: pdf(1.01 MB)   Additional Information: full citation, abstract, citings, index terms

Asnychronous Transfer Mode (ATM) has emerged as the most promising technology in supporting future broadband multimedia communication services. To accelerate the

deployment of ATM technology, the ATM Forum, which is a consortium of service providers and equipment vendors in the communication industries, has been created to develop implementation and specification agreements. In this article, we present a brief overview on ATM protocol layers and current progress on LAN Emulation and Traffic ...

20 A QoS management system for multimedia applications in IEEE 802.11 wireless LAN

Andrea Palmieri, Francesco Sigona

December 2006 **Proceedings of the 5th international conference on Mobile and ubiquitous multimedia MUM '06**

Publisher: ACM Press

Full text available: pdf(378.28 KB)   Additional Information: full citation, abstract, references, index terms

Wireless networks are becoming increasingly popular in professional environments as well as in the home. The success of IEEE 802.11 has cut down equipment costs and people are now building their own residential wireless networks, connecting PCs, MP3 players, broadband gateways and Hi-Fi systems.However, such dramatic growth is creating problems in crowded areas, as the Wi-Fi bandwidth is limited and interference effects start to limit the technology usability.This paper describes a management sy ...

Keywords: QoS, UPnP, admission control, run-time monitoring

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